Material Safety Data Sheet

1. Product and Company Identification

Material name	CH145A
Use of the preparation	Inkjet printing.
Version #	02
Revision date	15-Nov-2009
CAS #	Mixture
Synonym(s)	ColorSpan 0900992-500
Company identification	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501 Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com
Date prepared	Nov 14, 2009
MSDS number	579548

2. Hazards Identification

Emergency overview	Harmful by inhalation and in contact with skin. Irritating to eyes and skin.
Acute health effects	
Skin contact	Harmful in contact with skin. Contact causes skin irritation. Avoid contact with the skin.
Eye contact	Causes eye irritation. Avoid contact with eyes.
Inhalation	Harmful by inhalation.
Ingestion	May be harmful if swallowed.
Potential health effects	
Routes of exposure	Potential routes of exposure under normal use conditions are skin, eye contact and inhalation.

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
2-Butoxyethyl acetate	112-07-2	60-100

4. First Aid Measures

First aid procedures

Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
Skin contact	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Get medical attention. Wash clothing separately before reuse.
Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention immediately.
Ingestion	Rinse mouth out with water. Give several glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.

5. Fire Fighting Measures

Flash point and method 172.4 °F (78 °C) Closed Cup

Extinguishing media

Suitable extinguishing media Dry chemical, CO2, sand, earth, water spray or regular foam.

Protection of firefighters

Protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.
Cool containers with flooding quantities of water until well after fire is out.
Avoid runoff into storm sewers and ditches which lead to waterways.

6. Accidental Release Measures

Personal precautions Avoid inhalation of vapors or mists. Avoid contact with skin.
Do not touch or walk through spilled material.
Wear appropriate protective equipment and clothing during clean-up.

Environmental precautions Do not flush into surface water or sanitary sewer system.

Methods for cleaning up Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Clean up in accordance with all applicable regulations. Ventilate the contaminated area. Eliminate ignition sources including sources of electrical, static or frictional sparks.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use personal protective equipment as required. Use only with adequate ventilation. When using, do not eat, drink or smoke.

Storage Keep tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep away from heat, sparks and flame. Keep away from oxidizers.
Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components	Type	Value
2-Butoxyethyl acetate (112-07-2)	TWA	20 ppm

Personal protective equipment

Eye / face protection Wear safety glasses; chemical goggles (if splashing is possible). Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin protection Wear appropriate chemical resistant clothing.
Wear appropriate chemical resistant gloves.

Respiratory protection Use personal protective equipment as required.
Provide adequate ventilation.

General hygeine considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.
When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.
Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

Color Colorless

Odor fruity solvent.

Odor threshold Not available.

Physical state Liquid.

Form Liquid.

pH	Not available.
Melting point	Not available.
Freezing point	-83.2 °F (-64 °C)
Boiling point	363.2 - 383 °F (184 - 195 °C)
Flash point	172.4 °F (78 °C) Closed Cup
Evaporation rate	Not available.
Flammability	Not available.
Flammability limits in air, upper, % by volume	8.54 %
Flammability limits in air, lower, % by volume	0.88 %
Vapor pressure	13.2 hPa @ 20°C
Vapor density	> 1
Specific gravity	0.935 - 0.942 @ 20°C
Relative density	Not available.
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	536 °F (280 °C)
Decomposition temperature	Not available.
VOC	< 940 g/L
Other information	VOC content (less water, less exempt compounds) = < 940 g/L (U.S. requirement, not for emissions)

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal storage conditions.
Conditions to avoid	Avoid high temperatures.
Incompatible materials	This product may react with strong oxidizing agents. Reacts with air to form peroxides.
Hazardous decomposition products	peroxides.

11. Toxicological Information

Local effects Harmful by inhalation and in contact with skin. Contact with skin and eyes may result in irritation. Repeated or prolonged inhalation may cause toxic effects. Inhalation of high vapour concentrations can cause CNS-depression and narcosis.

Carcinogenicity

US ACGIH Threshold Limit Values: A3 carcinogen

2-Butoxyethyl acetate (112-07-2)	Group A3 Confirmed animal carcinogen with unknown relevance to humans.

Symptoms and target organs Major effects of exposure: Skin disorders, Allergic reactions.

Target Organs (NIOSH)

2-Butoxyethyl acetate (112-07-2)	Blood
2-Butoxyethyl acetate (112-07-2)	Central Nervous System
2-Butoxyethyl acetate (112-07-2)	Eyes
2-Butoxyethyl acetate (112-07-2)	Hemato system
2-Butoxyethyl acetate (112-07-2)	Kidneys
2-Butoxyethyl acetate (112-07-2)	Liver
2-Butoxyethyl acetate (112-07-2)	Lymphoid system
2-Butoxyethyl acetate (112-07-2)	Respiratory system
2-Butoxyethyl acetate (112-07-2)	Skin

12. Ecological Information

Aquatic toxicity May cause long-term adverse effects in the aquatic environment.

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions Dispose of in compliance with federal, state, and local regulations. Do not allow this material to drain into sewers/water supplies.

14. Transport Information

IATA

Not regulated as dangerous goods.

General Not a dangerous good under United States DOT, IATA, ADR, IMDG, or RID.

15. Regulatory Information

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

16. Other Information

HMIS® ratings
Health: 1
Flammability: 2
Physical hazard: 0
Personal protection: B

NFPA ratings
Health: 1
Flammability: 2
Instability: 0

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Revision 2

Replaces sheet dated Oct 11 2009 1:18PM

Manufacturer information
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Product Information 1-800-925-0563

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MSDS sections updated
9. Physical & Chemical Properties: Other information
14. Transport Information: General

Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds